

Tomorrow's Threshold

Chemical Progress Noted As Industry Gets Set For Bow

On February 20, 1962, an American astronaut orbited the world three times. Thus, this nation firmly planted its foot in tomorrow.

Union Carbide Corporation, as well as the entire chemical industry, is deeply involved in the future. Riding in the capsule with John Glenn were the age-old dreams of man to explore the unknown. The outer skin of the Mercury capsule is made of alloy shingles, a product of Haynes Stellite, a division of UCC.

"New Worlds Through Chemistry" is the theme of Chemical Progress Week, set for national observance week. The week of April 9-13 has been designated as that time for the world of chemistry to take a bow.

So much a part of man's everyday life, the miracles of chemistry may sometimes be ignored.

Space Hop Dramatic

The milestone taken by Col. Glenn in February is one of the most dramatic of any made possible by America's chemical industry. Yet there are other down-to-earth milestones along the road of chemistry's progress. Little more than 25 years ago, we were a nation without television sets, nuclear energy, modern antibiotics, nylon and jet aircraft, to highlight a few.

Such milestones as these point up the fact that the USA, and other nations as well, have crossed the line into an age of technological miracles.

Chemistry Creates Industry

Entire new industries have been created by chemical research. The plastics industry is but one example. One of the few billion dollar industries in the US today, it represents over 1,100 companies which are engaged in producing some form of plastics. Carbide engineers state that the surface is just now being scratched.

On the eve of the ninth obser-

vation of Chemical Progress Week, no person can be sure what changes tomorrow will bring — only that there will be changes.

10 Seconds Important

Granting it to be true, as has been said, that if the history of the world has condensed into 24 hours, more change and progress would have taken place in the last 10 seconds than in all the time before, then the changes to come will outstrip the most vivid of imaginations.

Research is the lifeblood of chemical companies which today are working on tomorrow's horizons. Last year the industry privately invested some \$800 million in research and development. As an average, this amounted to three cents for every dollar of sales.

Clothed Astronaut

Chemistry furnished the clothing for the first Project Mercury astronaut. A three-layer suit featured nylon-reinforced neoprene, rubberized plastic, and non-tear nylon mesh. Even the helmet was made of fiberglass, another product of chemistry. Future astronauts and lunarnauts will be protected with clothing made possible by chemical research. The long-used cottons and wool, man's age-old cloth products, could never be made to make space suits.

Almost everything man touches is concerned with chemistry... the food he eats, the comforts of his home, even the paper used in this printing process. The ink has been perfected through experimentation with chemicals. The paper is made better and stronger with chemical additives.

Photosynthesis Achieved

Scientists have already achieved photosynthesis outside the living cell on a laboratory scale. Complete understanding still eludes researchers, though the process's early stages are

Continued on Page 4



William J. Farrell

Welding Society Sets Meet At Holiday Inn

Scioky's Farrell Is Featured Speaker

The Northeast Tennessee Section of the American Welding Society will meet next Tuesday, April 10, at the Holiday Inn, Oak Ridge. Dinner will begin at 7 p.m., and the technical meeting is slated to start at 8 p.m.

Featured speaker will be William J. Farrell, chief application engineer, Scioky Brothers, Inc. He will speak on how tungsten arc welding and spot welding are automated with an analog computer and digital controls will be illustrated and described. Farrell has been with Scioky for the past 16 years. Prior to that time he was with the Research and Development Department of the Consolidated Edison Company and was welding engineer for the Gruman Aircraft Engineering Corp. He received his educational training in mechanical engineering and metallurgy at Cooper Union Institute of Technology and Columbia University. The social hour begins at 6:30 Tuesday at the Holiday Inn. Dinner reservations are \$3 and may be made by contacting any local member of the AWS.

Meanwhile, the Welding Society announces its big welding show in Cleveland, Ohio, April 10, 11, 12. A total of \$3,000,000 worth of welding equipment will be on display in the Public Auditorium at Cleveland. Products will show how new processes, techniques and materials have improved design, produced greater efficiency, and made possible more economical operations. All engineers concerned with metal joining should allow themselves sufficient time to study the exhibits at Cleveland.

Chemical Engineers Meet Tuesday At ORINS Bldg.

The Knoxville-Oak Ridge Section of the American Institute of Chemical Engineers will meet Tuesday, April 10, at 8 p.m. in Room 18 of the Oak Ridge Institute Building. The program will include two guest speakers from the Tennessee Valley Authority, M. M. Williamson, principal mechanical engineer, and E. E. Cabaniss, assistant power plant superintendent for the Paradise Steam Plant. Their topic will be "The Application of Computer Control to Large Steam Power Plants."

Everyone interested in chemical engineering, computer control, or the TVA is invited to attend the meeting.

UCC President Birny Mason Jr. Speaks At Gatlinburg Thursday

Corporation Head To Address Tennessee Industrial Personnel Conference Banquet

Union Carbide Corporation's president, Birny Mason, Jr., will be one of the principle speakers at the Tennessee Industrial Personnel Conference, set at Gatlinburg, April 5, 6. The 25th annual conference will be held at the Riverside Hotel. Mason will be the banquet speaker Thursday night. His topic will be "Effective Management."

President Mason has been associated with Carbide since 1932. He held various positions in research and production with Union Carbide Chemicals Company before he was made manager of Carbide's industrial relations staff in 1952. In 1955, Mason was made secretary of the Corporation and the following year was named president of Union Carbide Development Company.

Named UCC Head In 1960

He was elected a vice president of Union Carbide Corporation and appointed a member of the appropriations committee in 1957. In 1958 he was elected executive vice president and member of the board of directors. Born in Brownsville, Pa., Mason is a graduate of Cornell University. He was named UCC president in 1960.

The Conference was organized in 1932 to promote new understandings between the management and the labor force in Tennessee's business... and a new appreciation on the part of each. Sharing of techniques, personnel practices, and data by representatives of many different firms and organizations... a sharing aimed at improving business, and human relations in business are enjoyed by members of the organization.

TIPC Purposes

The TIPC has stimulated imagination, experimentation and pioneering in the personnel field. Of the many objectives, high on the list are making a better operation of existing business in the state, giving rise to the expansion of existing business, and attracting new business development to Tennessee.

Active in the organization is George W. Flack, Y-12's superintendent of industrial relations, currently one of the group's area chairmen. On the advisory council is T. E. Lane, Union Carbide Nuclear's general superintendent of industrial relations. A former recipient of the James House Williamson Award, Lane was TIPC chairman in 1952. The award was established in 1956 to honor the late secretary of the group. It goes each year to honor a member for his outstanding contribution to the field of industrial personnel management.

Other Speakers Listed

Other prominent speakers to be

Continued on Page 4



Birny Mason Jr.

Insurance Dividend Checks Mailed April 3

15.04 Per Cent Is Refunded To Y-12ers

Y-12 employees are being given their dividend checks by mail this year. Carbide employees in the three Oak Ridge plants are sharing a total of \$192,161. This amount to employees amounts to approximately 15.04 per cent of the amount each employee paid into the life insurance, sickness and accident Group Insurance plans.

The checks were mailed yesterday, April 3, to each employee's home, and should reach everyone in a day or so.

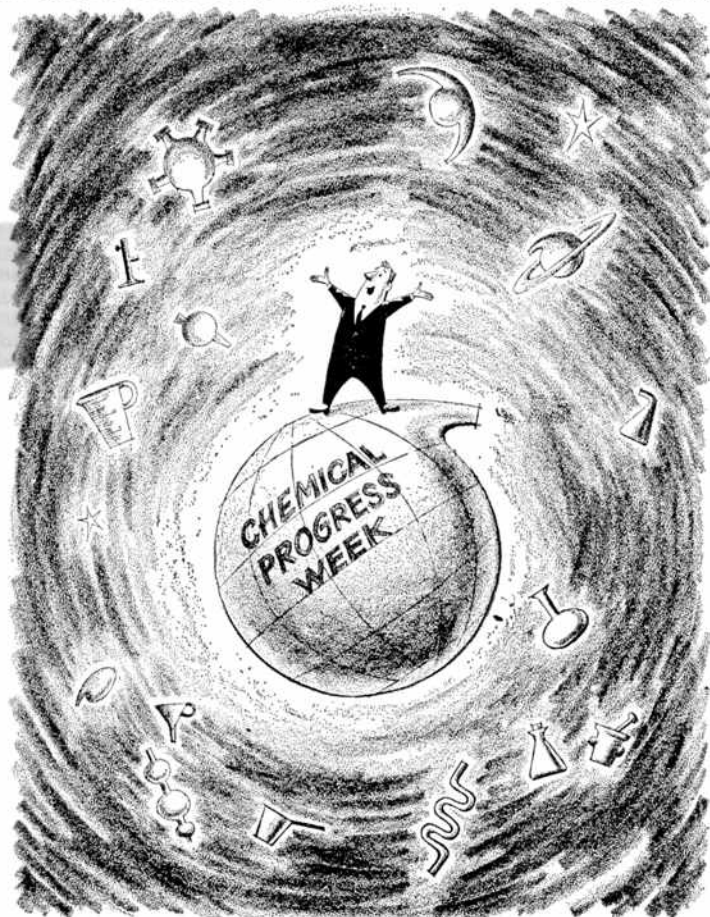
The 15.04 per cent compares with the 29.45 per cent refunded last year and the 26.75 per cent given back as dividends in 1960.

Added to the dividend payments, Carbiders here received \$2,172,000 in benefits during 1961 under the Group Insurance Plan. This compares with the \$1,530,000 in benefits paid out during 1960.

Arctic Film Available On Loan From Commission

A new film showing the world's first radioisotope-powered remote weather station is now available at the Atomic Energy Commission for loan. The 18-minute color film, "Atom Weatherman: Strontium-90 Isotopic Applications," includes extensive coverage of the preparation of the large radioactive source for the power generator at the AEC's Oak Ridge National Laboratory. The 16 mm film includes scenes showing the 4,000 mile journey to the Arctic on an icebreaker for installation of the unit.

The semitechnical film may be obtained without charge for non-commercial showings from the Public Information Office, at the AEC.



SAFETY SCOREBOARD

The Y-12 Plant Has
Operated
11 Days Or
323,000 Man-Hours
(Unofficial Estimate)
Without A Disabling
Injury
Through April 1
Phone 7755
For Daily Report
On Accident-Free Hours

The Bulletin

Published Weekly By And For
Y-12 Employees Of
UNION CARBIDE
NUCLEAR COMPANY
Division of



UNION CARBIDE CORPORATION

JAMES A. YOUNG Editor

OFFICE

Post Office Box Y
Oak Ridge, Tenn.
Bldg. 9704-2 Room 149
Telephone 7109

Saline Water Program Assigned To ORNL

The Atomic Energy Commission has agreed to a request of the Department of the Interior for participation by the AEC's Oak Ridge National Laboratory in basic research phases of the Department's Saline Water Conversion Program. This was announced last week jointly by Secretary of the Interior Stewart L. Udall and AEC Chairman Glenn T. Seaborg.

The department of the Interior will transfer \$365,000 to cover the cost of this program for the coming six months. The studies at ORNL will involve the chemical properties of water and the technology of materials in aqueous solution. Research will begin immediately.

This new research endeavor is made possible by the provisions of the Anderson-Aspinall Act, approved by President Kennedy on September 22, 1961, which authorizes expansion in the basic research activities of the Office of Saline Water.

The AEC was requested to participate in the program because the research activities at ORNL are intimately related to OSW efforts and are logical extensions of current research at the Laboratory. Scientists at ORNL have long-term experience in chemical processing research, purification and decontamination where the quantities of materials dissolved in water are routinely reduced to levels much lower than those required in the conversion of sea water.

Many economists consider the desalinization of water one of the most critical problems facing the world today.

Author Amory Speech Reset For Tomorrow

Cleveland Amory, noted wit and author, will speak at 8 p.m. tomorrow, Thursday, April 5 at the Jefferson Junior High School, Oak Ridge. His subject will be "Who Killed Society?" the topic of his latest book. An informative speaker, the author is known for the best selling "The Proper Bostonians." The lecture is being sponsored by the Friends of the Oak Ridge Public Library.

A reception will follow honoring the author at the Library. Tickets are available at the Library and at the box office Thursday night at Jefferson Junior High.

Chemistry Can Stretch A Dollar These Days

Chemistry is developing a more durable dollar. It is true that money passes through more hands than ever (it seems to travel faster too!) The specially developed currency paper is compounded from cotton and linen fibers and — of all things — melamine plastic. The new bills mark the first model change since 1929's king-sized dollar bill gave way to the economy size now in use. Currency produced by United States mints require an amazing 350,000 pounds of green ink!



It never occurred to us that the "Star Spangled Banner" could make exciting reading. The very fine actor Van Heflin gave a reading on television the other night of the lyrics of the national anthem. The true meaning of the words is often lost in the somewhat difficult tune. Television brings to mind a Molly Goldberg statement also: "America, America, I love you. If I didn't hear an accent every day, I'd think that I was in a foreign country!"

Accents in and around Y-12 turn toward

SHIFT SUPERINTENDENTS AND UTILITIES

Vacationing in Missouri is Richard Brothers . . . Filling in for Jackie Ward, who is still ill, is Martha Williams, Employment. Best wishes are still sent to Jackie for a speedy recovery.

In Utilities it's told that F. D. Clowers took a vacation to do the spring cleaning and to break in a spanking new auto . . . E. S. Smith vacationed at a destination unknown . . . H. M. Cheek took a vacation to do chores and catch up on some fishing . . . R. H. Edington, ditto . . . C. G. Wilson wanted to attend the Four H Cattle Sale in Knoxville. His son is a Four H member and has entered one in the sale . . . C. E. Oney is vacationing awaiting their appointment with the stork . . . J. H. Humphreys is a welcome sight back after an extended illness . . . Bob DeMonbrum took a recent business trip to Chicago . . . Lib Kilby very ably contributed the above in Jackie's absence.

A six-year-old we know recently told his teacher: "I don't want to scare you," the lad said, "but my daddy said if I don't get better grades, somebody's going to get a whipping!"

INDUSTRIAL RELATIONS

The Fire and Guard Department is welcoming back H. H. Neal after a "bout with the bug." Get well wishes are speeded to A. J. Ballinger, ill in the Cleveland Hospital . . . Also get well wishes to John Maxwell, on military leave. John has his leg in a cast because of a jeep accident. He is in the U. S. Army Hospital at Fort Campbell, Ky. . . The cast, which he will wear for six weeks, hasn't been autographed yet! . . .



A-3/c Jack E. Lewis

This fine looking young man is Airman 3rd Class Jack E. Lewis, with the United States Air Force, Lowry Air Force Base, Denver, Colo. His pa is Fireman R. E. Lewis. Jack is on his way home for a two weeks' leave with his parents at Halls. He'll probably get in some fishing while here, since he and his dad are famous for the big 'uns they catch.

Lectures are often like steer horns, a point here, a point there, and a lot of bull between.

TECHNICAL

Special Projects down in Beta Four are congratulating George and Wilma Drevik on the arrival of a baby boy in the Oak Ridge Hospital. Little Darrin Kenneth tipped the scales at eight pounds, four ounces, and is doing fine

. . . C. E. Maberry is still complaining. Sez the "Music Man" wasn't worth a toot, trombones and all, and he wisht he had his money back.

The Plant Laboratory, long absent from these columns, pipes in a few words for a change. Laboratory Operations has Anne and Joe Wenzler's daughter, Mrs. Melvin Herring visiting recently from Columbus, Ohio . . . Also Jo Anne Perry, daughter of John and Anna Perry was home recently on spring holidays from Tennessee Polytechnic Institute, Cookeville . . . Production Assay allows that T. I. Knisley and Lucian "Pete" Peters are ailing and best wishes to them . . . Deepest sympathy is extended to Geneva Gracey in the death of her father, Mr. W. E. Drewery who died in Oak Ridge March 24 . . . Production Analysis has Gladys Standridge also on the sick and ailing list, and best wishes are sent to her.

Radiation Safety has Alice Dixon and Scott Sadler ill in hospitals, and bouquets of best wishes to both of them.

Metallurgical Development heard all the way from Livermore, California about the birth of Charles Coughlin's grandchild. But a man's entitled to a little crowing now and then!

Woman driver to friend: Will you look how close that maniac is driving ahead of us?"

FINANCE AND MATERIALS

Plant Records had Emma Puckett spending the week-end with her sister, Mrs. Roland Tillman at Murray, Ky.

In Microreproduction and Engineering Services (that sure is a dilly of a long name for a department!) the welcome mat is out for J. K. Chance, who recently transferred over from ORGDP . . . Georgia Rader is moving into her new home near Rutledge while on vacation this week.

ENGINEERING

Tool Engineering is welcoming newcomer Loretta Johnson, while Numerical Control also greets Tom Hardin, who transferred in recently.

Nowadays war has got to the point that it will never prove who was right — just who is left!

MAINTENANCE

Area Five Maintenance sends condolences to G. W. Chancey, in the recent loss of his father . . . D. H. Tunnell is vacationing around home.

Process Maintenance has E. E. Boyatt passing out cigars recently after the arrival of a new grandson . . . Get well wishes are extended to Helen Estep . . . Cap Peters is welcomed into the department.

Old Chinese proverb: He who sometimes gets bold eliminates big chance for getting old.

MECHANICAL OPERATIONS

The General Machine Shop welcomes Fred Napier into the grounds. Fred comes originally from Batavia, Ohio . . . Sympathy is extended to W. B. Biddix whose brother-in-law passed away recently.

Production Control is passing out the cigars again! Congratulations to new arrivals thusly: The Don Lanhams have a new boy born March 23 at the Loudon

Continued on Page 4



ANN RACKLEY, SECURITY, issued the cards at Central Portal as Y-12ers received their 28th safety award. Y-12 has worked more than 77,000,000 man-hours, a total of 29 periods over 1,500,000 man-hours, since 1948 without a disabling injury. Two injuries have already accounted for lost time this year in Y-12.



BUSY CENTRAL PORTAL last week saw the issuance of the 28th safety award for Y-12ers. The awards were given for the period from September 6 to November 8, 1961, an accumulation of 64 days, or 2,350,989 man-hours. Bob Cantrell, Recreation, issues the awards.



Get well wishes are sent to the following Y-12 employees who were patients last week in the Oak Ridge Hospital:

Haskell W. Caldwell, Area Five Maintenance; Okley E. West, Stores Department; Warren H. Asbury, Graphite Shop; Gil A. Jamieson, Production Control; Scott F. Sadler, Radiation Safety; Murray L. Kinamon, Machine Maintenance; Van B. Williams, Research Services; Floyd L. Deal, Beta Four Assembly and Forming; and James H. Jones, Area Five Maintenance.

Y-12ers Celebrating 15, 10 Year Anniversaries

Congratulations to the following Y-12ers who will observe 10-year anniversaries with Carbide within the next few days. No employees were shown in the 15-year category.

10 YEARS

John H. Byrd, General Machine Shop; April 4.
Lloyd B. Morrow, General Machine Shop; April 4.
Alonzo Mills, Electrical; April 7.
Solomon D. Blessing, Research Services; April 7.
John S. Robinson, Process Maintenance; April 7.
Walter B. Bailey, Sunflower Shop; April 8.
Percy K. Wallace, Dispatching; April 9.
William H. Hickman, Sunflower Shop; April 9.

NOBEL INTEREST

Alfred B. Nobel, inventor of dynamite, bequeathed \$9,000,000 into a trust fund on his death in 1896. Prizes awarded to those annually who have most benefitted mankind come from the interest earned by the original bequest.

ORCMA Presents All-Beethoven

Saturday, Oak Ridge's Symphony Orchestra, featuring the musicians and chorus, will present an all-Beethoven program. Presented under the auspices of the Oak Ridge Civic Music Association the concert will be given in the auditorium of Oak Ridge High School, April 7, at 8:15 p.m.

The program will open with Beethoven's Symphony No. 1, followed by Fantasia in C Minor for Piano, Chorus and Orchestra with the text by Christian Kuffner. Soloists will be Lowell McCauley, pianist, Mary Winters, soprano, and Ray Adams, bass. The chorus and orchestra are directed by Franklin Choset. Also to be presented on the program is Beethoven's Cantata on the Death of Emperor Joseph II which is dedicated to the memory of Bruno Walter. "Hallelujah" from the "Mount of Olives" will complete the program.

ORCMA members can use season tickets for this performance, and tickets will also be available at the box office.

Y-12's Name Stays The Same

The names originally given plants here in Oak Ridge had little or no significance. The "Y" in Y-12 has no particular meaning. The "12" was added for the purpose of confusing. X-10, now Oak Ridge National Laboratory, was given the "X" because of the University of Chicago's description of the site. The "10" means nothing.

Actually, ORNL's first name change gave it the title of Clinton Laboratories.

Oak Ridge Gaseous Diffusion Plant's original title made more sense than either of the two plants. The "K" applied at the gaseous diffusion plant was added because the plant was designed by the Kellogg Corporation. The "25" was used arbitrarily as an abbreviation of U-235.

The Y-12 plant is the only one of the three holding its original name.



JIM SCHULTZ prepares for another "sky-dive" into the wild, blue yonder. Jim, Electrical Engineering, was covered in a recent story in The Bulletin. His interesting hobby of free falling from a plane takes him most every week-end to a pasture over near Powell.

Guttersnipes Win 3 In Kingston

Remain In Close Second Place

The Guttersnipes, Y-12's team in the Kingston Bowling League, took three points last week from the Head Pins, keeping their hold on second place in league standing. They remain only four points from first place.

The League leading Rookies took three points from the Could B's, and the Alley Cads defeated the Sparemen by the full count of four. The Rookies' Schareter took highs in a clean sweep with 234, 264, 627, 714 scores. The Rookies took team highs with handicap scores of 1058 and 3000.

League standings follow:

Team	W	L
Rookies	32	16
Guttersnipes (Y-12)	28	20
Alley Cads	26	22
Head Pins	24	24
Could B's	21	27
Sparemen	13	35

Rollmasters Roll By Three Past Wallops

The Y-12 team in the Wednesday 5:45 League for Carbide bowlers, clipped their opponents last week for three points. The Rollmasters downed the Wallops, an Oak Ridge Gaseous Diffusion team. Only five and one-half points from first place, the 'Masters had better get busy with only a few game nights remaining in league play.

Highs of the night went to John Pashley, Head Pins, with 232, 264, 617, and 713 scores. High handicap game went to the Cast Offs with 1065, and high series handicap score was tallied by the Planners, with 3033.

League standings follow:

Team	W	L
Planners	74½	45½
Head Pins	73	47
Rollmasters (Y-12)	69	51
Mix-Ups	66	54
Cast-Offs	62½	57½
Wallops	58½	61½
Sandbaggers	58	62
Lab Demons	57	63
Woodpeckers	55½	64½
Pirates	54	66
Wacos	49	71
Rookies	42	78

60,000 Mice To Live In New ORNL Space

New facilities added to the Oak Ridge National Laboratory's Biology Division will house research facilities for approximately 60,000 mice. The studies will involve radiation effects during the life span of the rodents.

The new fourth-floor section includes laboratories, animal facilities, radiation sources, and provides for controlled environment. Approximately 16,000 square feet of space was remodeled under a \$530,000 contract.

BIRDS IN THE BUSH

The wild turkey, native to North America, was once on the verge of extinction. It is believed, however, by naturalists that the bird is making a comeback in the eastern states.



"Watkins, I'd like a word with you!"

D League Y-12 Teams Move On

Rodders Win 4; Dry Hides Split

D League for Carbide bowlers was fair to good for Y-12 teams last week. The Rodders took four from the ORNL Termites, on the strength of their 2945 series handicap score, while the Dry Hides split two points with the Beryls.

High scores were racked up by the Pin Heads with a 2971 handicap score total. Their Zanolli had a very fine 696 series handicap score. Edwards and Ely, of the Dry Hides, had 657, 612 scores handicap-wise.

The Rodders, by virtue of their four-point win stand only four points removed from first place.

League standings follow:

Team	W	L
Sh-Booms	25	7
Beryls	22	10
Pin Heads	22	10
Rodders (Y-12)	21	11
Kemix	21	11
ORINS	19	13
Dry Hides (Y-12)	18	14
Alley Rams	18	14
Termites	16½	15½
Gassers	16	16
Hephex	11	21
Guttersnipes	9½	22½

'Yum-Yum' Tryouts Set For Sunday

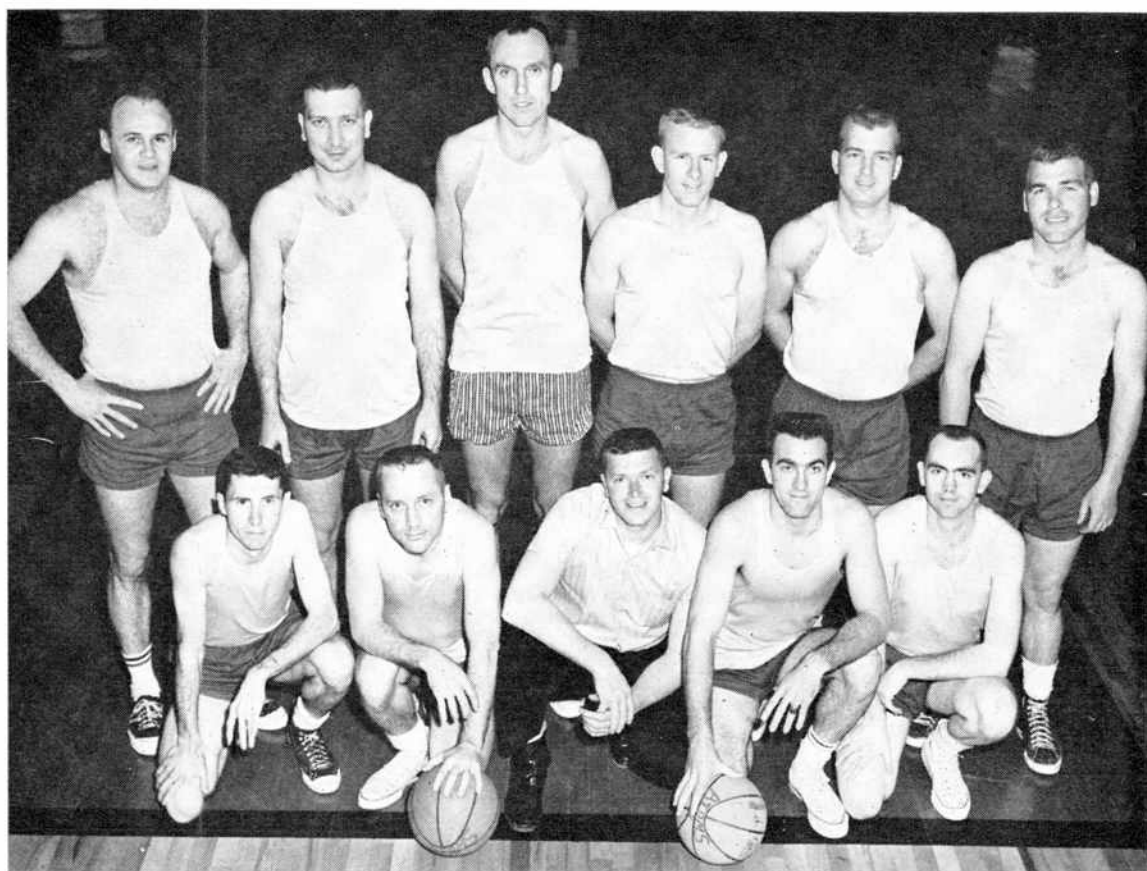
Y-12 thespians wishing to emote are reminded that try-outs for "Under the Yum-Yum Tree" will be held in the Oak Ridge Playhouse in Jackson Square, Sunday, April 8 at 2 p.m. Readings will be held at 2 p.m. and again at 7.

The light, sophisticated comedy, a hit of the summer stock circuits throughout the country, has a cast of four twenties ranging from their early twenties to early thirties and two females, age 19 and 32 approximately. Playhouse officials feel that the frothy, light production will be a natural for summer audiences. Following the evening try-outs the annual membership meeting will be held. Director Paul Ebert will direct a play-reading of Anton Chekov's one-act comedy, "The Boor." Refreshments will be served at the close of the meeting. All Playhouse members are urged to attend.

POPULAR SONG

Boys in the Eldora, Iowa State Training School for Boys (Reformatory) recently showed in a poll that their favorite song was "Hit the Road, Jack."

Don't let ignorance of correct security procedures cause you to endanger classified information.



CHAMPIONS IN BASKETBALL, in both league and tournament play, the Y-12 Atoms line up before last week's finals in the Carbide Basketball Tournament. Kneeling from left are Jim George, Edd Cothron, Manager Dary Dawes, Bob Rose, and Don Forrester. Standing from left are F. D. "Baldy" Clayton, Bob Easterday, Jim Beard, Kendall Brady, Carlos Brooks, and the "Bob Cousy" of the team, Bill Lanter. The Atoms went through the scathing double-elimination tournament without a loss. They defeated the Y-12 Eagles in the final game of the seeded play.

Atoms Official Basketball Champs In Both League And Tournament Play

Y-12 Team Goes All The Way Without A Defeat In Final Hardwood Competition

Well, the Atoms did it! They are now the official league and tournament champions in basketball for Carbiders here. In the combined Y-12-Oak Ridge Gaseous Diffusion Plant play the Atoms have come up with the top hat in both divisions.

Titlists in the league race, the Atoms and ORGDP Lab Demons clashed last Tuesday night. The Demons capped first place in the first half of league play while the Atoms took the second half. In the play-off the Atoms won 61 to 46. For the defeated Demons it was Jim McCall, 17; Bill Slatery, 11, and Edd Woy, eight. For the Atoms, it was Jim George with an amazing 29, Jim Beard, 10, Bill Lanter, nine, and Edd Cothron, seven.

Eagles Down 2 Teams

Tournament competition featured another Y-12 team going all the way to the finals. To do this, the American Eagles had to down two cracker-jack teams from ORGDP. Tuesday, they first downed the Peons 63 to 50, thanks to some fancy floor-

work by Jim Pugh. His 28 points pushed the Eagles to the foreground, aided and abetted by Dan Greaser's 11 points, Jim Bryson's nine and John Pridgeon's seven. For the losing Peons it was Jim Cox, 22; Terry Mothershed, 10 and Lee Feldman with eight.

The second game of the big Eagle winning streak came as they knocked the Lab Demons from the tournament with a walloping score of 56 to 37. Again it was Pugh sinking 21 points through the basket. Ralph Vaughan followed with 17, Greaser had 10. For the losing Demons it was Edd Woy with 11 and Slatery with 10.

Y-12 Teams In Finals

Tournament finals saw two Y-12 teams clash as the undefeated (in tournament play) Atoms met the Eagles. In mediocre play (for both teams), the

Atoms eked out a 37 to 32. Percentages of goals ran low for both teams. John Pridgeon, Eagles, led the field with 18 points with his fancy long shots. For the victors Jim George did his usual for the Atoms with a 15 tally. Carlos Brooks fired eight points for Edd Cothron's five. At the end of the first quarter the Atoms trailed eight to seven, led at the half-time period by 17 to 16. Scoring at the end of the third quarter was Atoms 25, Eagles 24. The lack lustre game produced the second loss for the Eagles as they fell their first game in the tournament to the champion Atoms.

This game climaxed the eight-team basketball season for the two plants. The fancy stars will desert the hardwood for the soft turf of the Softball Leagues, set for play the early part of May.



Ride wanted from West Beaver Creek Drive, Powell section on Clinton Highway, to West Portal, straight day. C. C. Dinkins, plant phone 7-8248, home phone Powell 947-7732.

Ride wanted or will join car pool from Cedar Lane, Fountain City, to Biology or North Portal, straight day. Christine Pope, plant phone 7212, home phone Knoxville 689-1309.

Water, Water Everywhere, And Not A Drop To Drink

Not all the Atlantic Ocean is salty! Fresh water can be dipped from the ocean at least a hundred miles off the Brazilian coast, where the Amazon River empties into the ocean. Four British sailors drifted during the war for four days afloat on this body, nearly dying of thirst, not knowing they were adrift on fresh water.

BULK RATE
U. S. Postage
PAID
 Oak Ridge, Tenn.
 Permit No. 71

UNION CARBIDE
NUCLEAR COMPANY
 Division of
 Union Carbide Corporation

Post Office Box Y
 Oak Ridge, Tenn.

RETURN POSTAGE GUARANTEED

POSTMASTER: DO NOT FORWARD. IF ADDRESSEE HAS MOVED,
 RETURN TO SENDER IMMEDIATELY.

Chemical Society Meets Wednesday

The East Tennessee Section of the American Chemical Society will hold a meeting next Wednesday, April 11, at 8 p.m. in Room 18 of the Oak Ridge Institute of Nuclear Studies Training Building. The speaker will be Dr. Lawrence H. Piette, Varian Associates. Dr. Piette is a native of Chicago, and holds a BS degree in chemistry and an MS degree from Northwestern University. His doctorate work was done at Stanford in the field of Nuclear Magnetic Resonance. He received his PhD in 1957.

Dr. Piette joined the basic research group of the instrument division of Varian in 1956 and his research activities have been chiefly concerned with the application of Electron Paramagnetic Resonance to the study of fast reactions, in particular free radical reactions involving short lived intermediates. He is the author of a variety of papers on the EPR applications in the fields of photochemistry, biochemistry and electrochemistry.

There will be a dinner preceding the talk at 6:30 at the Oak Terrace Restaurant. For reservations call Jim Cullipher in Oak Ridge at telephone extension 8-9610.

Chemical Progress

Continued From Page 1

well understood and some of the more advanced reactions are giving way to understanding. Researchers also have test-tube duplicated nature's reaction in living cells by which nitrogen compounds are created — compounds without which life cannot exist.

The implications of man's future are staggering. If as much progress can be made in the next 10 seconds than man made in 5,000 years, think what the next 10 years may bring!

Tennessee Is Ninth

Tennessee ranked ninth in the entire United States for chemical production in 1958, the latest figures available show. That year this state produced chemical goods worth \$535,125,000! And this is only the beginning.

Carbide now is the second largest chemical industry in the country . . . and the beginning has just started.

Since the alchemists of long ago tried to turn ordinary materials into gold, chemistry has advanced from the black magic stage until today when research stands on the threshold of tomorrow. A Better World through Chemistry, of course . . . and more worlds to come!



THE MEDICAL DEPARTMENT also said farewell last week to one of its well-known employees. Miss Maude Clemmer, holding the hat box, took an early retirement the end of March. The kindly nurse, a native of Tennessee, hopes to move to Florida in the near future.



Continued From Page 2

Hospital, named Mark Edward. The Al McConkeys have a new girl born the same day in Oak Ridge. She was named Laura Ann. The Charles Myers have a new girl, named Karen Sue, born March 25, in Oak Ridge . . . Jim Newsome's wife returned from a recent Florida vacation . . . Kathy Mills and Pat Puckett, Production Inspection, are the newest additions to the "vultures for culture" clan. They took in the recent Boston Pops Concert in Knoxville's new Civic Auditorium. (Editor's note: Have you ever heard a symphonic version of a medley of Western TV show themes? . . . terrific!) . . . Attending the Jaycee Dance in Oak Ridge the other Saturday night were Jim and Bonnie Crone, Bob Harris and date, Pat Puckett and date, Kathy Mills and date (Kathy also showed off her vocal talents) and Emily and Paul Helton . . . Get well wishes to Greeta Luallen's husband, ill in the hospital in Clinton . . . The Milton Careys said goodbye to their daughter and granddaughter who went to Fort Hood, Texas, to be with their husband and daddy . . . Don Lanham took part of his vacation to help around the house with the new baby, and to get in some fishing when Mama wasn't looking.

CHEMICAL OPERATIONS

Product Processing sends its best wishes to R. B. Frady, ill in St. Mary's Hospital, Knoxville. Our best wishes to you, Roger!

George W. Dobbs, former editor of the Bulletin, visited in the plant last week, looking fit and sassy. He's been away now a year retiring in the wilds of Knoxville. His comment, to which we all agree, is that "tempus sure does fugit!"

Badge Swap Deadline Is Wednesday, April 11

No old blue-bordered badges will be honored at the portals after 11 p.m. next Wednesday, April 11. After that time employees must pick up their new badges at the Badge and Pass Office, Building 9704-2.

The yellow badges are back in Y-12 for the new quarter which began Sunday, April 1. If your badge has not been picked up, you should exchange your old badge the next time you pass a portal.

OLD GOLDEN RULE

Confucius, Chinese social philosopher, was born more than 400 years before Christ, yet he taught, "Do not do to others what you do not wish done to you."

Careful what you say — the wrong person could hear you.



HONORING MISS MAUDE CLEMMER on her early retirement last month is Alice Joyce at left, presenting Miss Clemmer with the handsome piece of luggage she took with her. Cake and coffee were also shared by department well wishers.

Birny Mason Jr.

Continued From Page 1
 heard at the conference include: D. R. Mader, personnel manager, Aluminum Company of America; J. S. Harrison, vice president, Alcoa; C. E. Fritschle, vice president, Kingsport Press, Inc.; Zeno Wall, manager of Gatlinburg's Chamber of Commerce; H. F. Littleton, personnel director, The Bacon Company; Dean C. H. Lawshe, Purdue University; E. M. Reed, Director of employee services, Tennessee Eastman Company; Dr. James H. Sterner, medical director, Eastman Kodak Company; Hume H. Hall, personnel supervisor, E. I. du Pont de Nemours and Co.; P. R. Curry, manager Nashville plant, Western Electric Company; and Robert D. Lilley, vice president in charge of personnel and public relations, Western Electric.

President Mason and other visiting businessmen will be exposed to some Tennessee culture at the meeting. Following Mason's banquet address Thursday night, there will be dancing and country music in Stephen Whaley Hall at the hotel.

Bell Telephone Man Conducts ORNL Seminar

The Physics Division of Oak Ridge National Laboratory announce as their seminar next week, "The Influence of Mechanical Structure on the Superconducting Properties of Hard Superconductors," to be conducted by J. J. Hauser, Bell Telephone Laboratories.

The seminar is slated for Monday, April 9, at 3:15 p.m., and will be held in the East Auditorium of ORNL's 4500 building.

Your pen and tongue can be dangerous weapons. Watch what you say and write.



SEEN RECENTLY at her desk is Miss Maude Clemmer, nurse in the Medical Department. She retired April 1 to become the 100th retiree to leave Y-12 since Carbide began operations in Y-12 in 1947.

'Recreation Safety' Is Theme In Poster Race

April's poster contest is in full swing, according to the Safety Department. "Recreational Safety" is the announced theme of the new competition. March's winners have been determined and will be announced next week.

Prizes offered in the April poster race are an electric frypan and an insulated ice chest. First place winner will get his choice of these two fine items. Recreational safety should give employees full vent for ideas in the poster race.

OLD GRAND-DAD

There are at least 15,380,000 people in the United States over 65 years of age. The average age of grandfathers is decreasing, however, due to earlier marriages.



SAFETY DEPARTMENT bade farewell last week to Mrs. Mollie Hatfield. From left are E. R. Bentley, B. I. V. Bailey, Clarence Johnson, Judd Temple, the honoree "Miss Mollie," Harlan Wright, Darlene Hunnicutt, E. G. "Sunny" Richardson, and Floyd Shook. The Department presented "Miss Mollie" with a transistor radio upon her retirement.



GOODBYE 'MISS MOLLIE' and the very best of luck to you. Mrs. Mollie Hatfield, took early retirement last week. She is seen here with Safety Department Head Clarence Johnson and Darlene Hunnicutt.